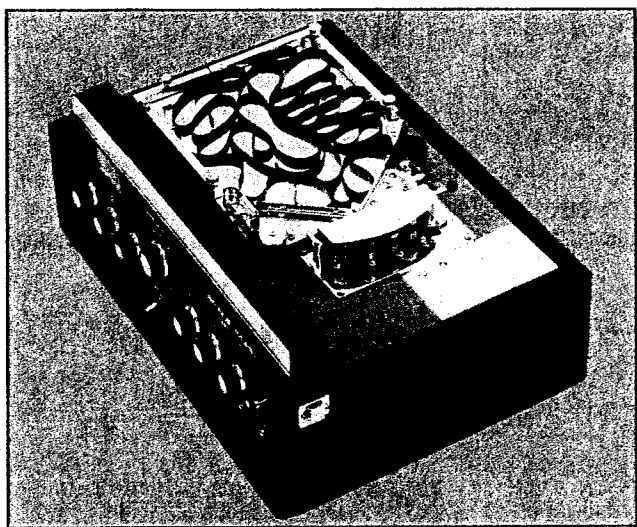


# ECHO CHAMBER

RE SERIES  
MODEL **RE-101** INSTRUCTIONS



 Roland



# FUNCTION AND USE OF CONTROLS

## (1) Input Section

### VU Meter 1

The VU meter indicates echo output level. As the needle approaches '0', echo distortion and noise will decrease. For normal use, set the level so that the needle fluctuates between '-3' and '0'.

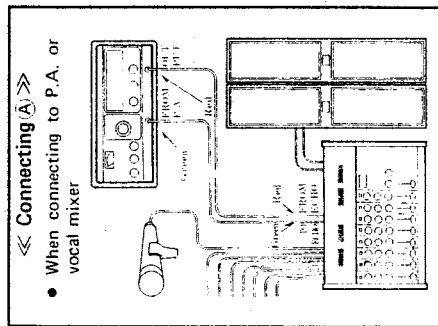
### Mic Volume 2

### Instrument Volume 4

These independent 3-channel controls are used to vary mic and instrument recording levels when they are connected directly to the RE-101. Two microphones and one instrument can be controlled and mixed simultaneously. For best echo effect balance adjust them (2) (3) so that VU meter (1) needle fluctuates between '-3' and '0'.

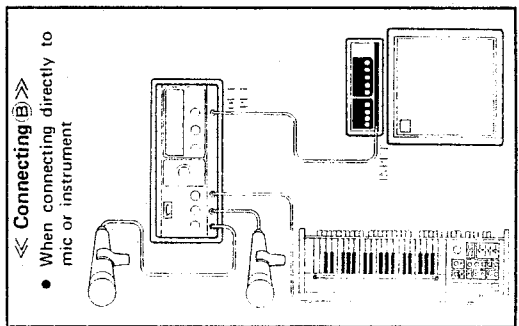
Note:

When connecting to P. A. or vocal mixer (refer to connection diagram A at left), input adjustments should be controlled by mixer's effect controls.



Connecting (A) >>>

- When connecting to P.A. or vocal mixer



Connecting (B) >>>

- When connecting directly to mic or instrument

## (2) Echo Effect Section

### Mode Selector 5

Controls echo interval by switching different playback heads in and out. 6 different modes are available divided into 3 "REPEAT" modes (simple repeat only effect) which are produced by switching of 3 of the playback heads and 3 "SWELL" modes (rich and complex effect) which are produced by combining all playback heads in different ways.

\* Mode Selector Position

Playback Heads	REPEAT			SWELL		
	1	2	3	4	5	6
1	✓					
2		✓				
3			✓			
				✓		
					✓	
						✓

### Repeat Rate 6

Adjustment of tape speed, each of the six different modes of the mode selector (5) can be further modified. Normally, set the control in the center position and adjust for desired sound "color" when necessary. Turn it counterclockwise to lengthen interval.

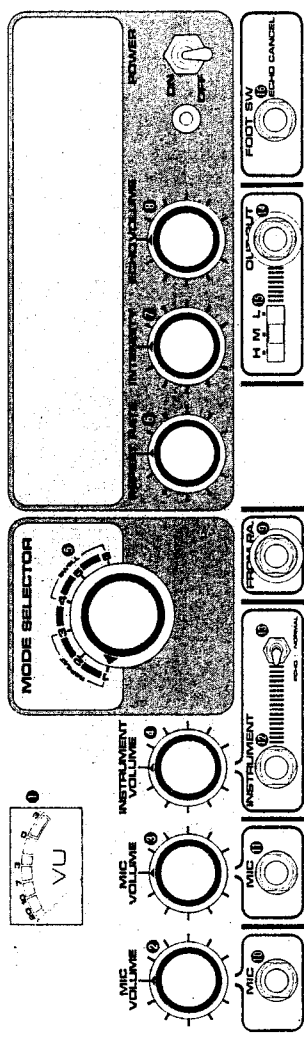
### Intensity 7

Controls intensity of echo repetition. Turn counterclockwise to lessen intensity. When set above 6-7, echo will not fade but will begin to oscillate. For maximum volume without howling, adjust level to the point just before oscillation starts.

### Echo Volume 8

Controls amount of echo contained in the total output. At "STRAIGHT", the original sound appears at the output with no echo; turning the control clockwise gradually adds echo to the output sound without affecting the level of the original sound.

- For most uses set REPEAT RATE (5), INTENSITY (7) and ECHO VOLUME (8) at '5' as shown in the figure and then adjust each for desired sound.
- The total output level of RE-101 is controlled by the change-over switch (9) next to the OUTPUT Jack (10), and by the volume controls on the external amp or mixer used with the RE-101.



## (3) Connections

### From P.A. Input 9

This is used for connection of jack from TO ECHO to PA Mixer or Vocal Mixer (fig. A) (From Green WASHER to Green WASHER).

### Mic Input 11

Jack for mic connection. (Refer to connection diagram B at left.)

### Instrument Input 12

Jack for instrument connection. (Refer to connection diagram B at left.)

### Echo/Normal Changeover Switch 13

When set to "NORMAL", the echo effect is cancelled for the instrument input only. This is convenient when using instruments together with mics.

### Output 14

Used for connecting FROM ECHO to PA Mixer or Vocal Mixer (fig. A) (From Red WASHER to Red WASHER). In case that microphones or instruments are connected directly to RE-101, OUTPUT is connected to amplifier INPUT (fig. B).

### Output Level Changeover Switch 15

Controls output level from RE-101. Select H (high), M (middle) or L (low) level according to the power of amp or mixer used.

### Foot switch Jack 16

This jack is used for connection of an auxiliary foot switch to control echo ON/OFF. The optional foot switch alternates between ON/OFF with each depression. It is interlocked with the VU meter (1) lamp for convenient visual checking of mode.

## FEATURES

1. Free running system  
Wow, flutter and noise are minimized with the free-running system. Since the endless tape runs freely, proper rotation speed and tape tension are constantly maintained. In addition to providing a superior echo effect, the free running system increases tape life 6–15 times, or up to 300 hours, without reduction in sound quality.
2. Balanced tones  
Since the RE-101 runs with less noise and is engineered to balance high and low sounds, a cleaner and clearer echo is produced.
3. Complete controls  
Each channel can be independently controlled for higher quality sound. Two mics and an instrument input can be mixed easily by monitoring the convenient level meter. Echo/Normal changeover switch allows independent control over instrument echo, a big plus when using mics and instrument simultaneously.
4. Interlocked foot switch  
Foot switch interlocks with level meter for visually checking echo mode.

## OPERATING PRECAUTIONS

- The RE-101 can be affected by ambient radio waves. If noise is encountered, change the angle of the RE-101 in relation to its location, or change its location entirely.
- Do not use the RE-101 in areas which are extremely hot, moist or dusty. Do not use or store in direct sunlight.

## SPECIFICATIONS

Input Jack:	4 pcs (for Mic x 2, Instrument, From P.A.)
Output Jack:	1 pc
Foot Switch Jack:	1 pc
Control Knob:	6 pcs (for Mic Volume x 2, Instrument Volume, Repeat Rate, Intensity, Echo Volume)
Control Switch:	3 pcs (for Instrument Echo-cancel Switch, Output Level 3-Step Changeover, Power Switch)
Rotary 6-Way Mode Selector:	1 pc
Level Meter:	1 pc (incorporates lamp interlocking foot switch)
Erasing Head:	1 pc
Recording Head:	1 pc
Playback Head:	3 pcs
From P.A.:	Input Impedance Over 100k $\Omega$ Input Level -24dBm
Output:	Level (0VU Input, Direct Output) H -15dBm M -23dBm L -35dBm Load impedance Over 10k $\Omega$
Power Consumption:	15W
Dimensions:	415(W) x 185(H) x 275(D)mm (16.3" x 7.3" x 10.8")
Weight:	9.2kg (20.3lbs.)
Accessories:	Connection Cord x 2, Foot Switch (FS-1), Endless Tape (RT-11), Cleaner and Vinyl Cover

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